



IFW16

## RAW SEQUENCE LISTING

DATE: 09/29/2004

PATENT APPLICATION: US/09/724,427D

TIME: 11:42:35

Input Set : D:\7682053999.txt

Output Set: N:\CRF4\09292004\I724427D.raw

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3 <110> APPLICANT: Palese, Peter
4   Garcia-Sastre, Adolfo
6 <120> TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS EXPRESSION SYSTEMS AND
7   VACCINES
9 <130> FILE REFERENCE: 7682-053-999
11 <140> CURRENT APPLICATION NUMBER: 09/724,427D
12 <141> CURRENT FILING DATE: 2000-11-28
14 <150> PRIOR APPLICATION NUMBER: 09/396,539
15 <151> PRIOR FILING DATE: 1999-04-19
17 <160> NUMBER OF SEQ ID NOS: 63
19 <170> SOFTWARE: PatentIn version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 21
23 <212> TYPE: DNA
24 <213> ORGANISM: Influenza virus
26 <400> SEQUENCE: 1
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29 <210> SEQ ID NO: 2
30 <211> LENGTH: 19
31 <212> TYPE: PRT
32 <213> ORGANISM: Influenza virus
34 <400> SEQUENCE: 2
35 Gln Leu Val Trp Met Ala Cys Asn Ser Ala Ala Phe Glu Asp Leu Arg
36 1           5           10           15
37 Val Leu Ser
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41 <211> LENGTH: 16
42 <212> TYPE: PRT
43 <213> ORGANISM: Influenza virus
45 <400> SEQUENCE: 3
46 Thr Tyr Gln Arg Thr Arg Gln Leu Val Arg Leu Thr Gly Met Asp Pro
47 1           5           10           15
48 <210> SEQ ID NO: 4
49 <211> LENGTH: 95
50 <212> TYPE: DNA
51 <213> ORGANISM: Influenza virus
53 <400> SEQUENCE: 4
54 gaagcttaat acgactcact ataagtagaa acaagggtgt tttttcatat catttaaact
55 tcaccctgct ttgctgaat tcattcttct gcagg
57 <210> SEQ ID NO: 5
58 <211> LENGTH: 95
59 <212> TYPE: DNA
60 <213> ORGANISM: Influenza virus

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62 <400> SEQUENCE: 5
63 gaagcttaaat acgactcact ataagcaaaa gcagggtgaa gtttaaatga tatgaaaaaa 60
64 cacccttggtt tctactgaat tcattcttct gcagg 95
66 <210> SEQ ID NO: 6
67 <211> LENGTH: 68
68 <212> TYPE: DNA
69 <213> ORGANISM: Influenza virus
71 <400> SEQUENCE: 6
72 agcttaataac gactcactat aagatctatt aaacttcacc ctgcttttgc tgaattcatt 60
73 cttctgca 68
75 <210> SEQ ID NO: 7
76 <211> LENGTH: 60
77 <212> TYPE: DNA
78 <213> ORGANISM: Influenza virus
80 <400> SEQUENCE: 7
81 gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataga tcttatagtg agtcgtatta 60
83 <210> SEQ ID NO: 8
84 <211> LENGTH: 42
85 <212> TYPE: DNA
86 <213> ORGANISM: Influenza virus
88 <400> SEQUENCE: 8
89 ccgaattctt aatacgactc actataagta gaaacaaggg tg 42
91 <210> SEQ ID NO: 9
92 <211> LENGTH: 30
93 <212> TYPE: DNA
94 <213> ORGANISM: Influenza virus
96 <400> SEQUENCE: 9
97 cctctagacg ctcgagagca aaagcagggtg 30
99 <210> SEQ ID NO: 10
100 <211> LENGTH: 15
101 <212> TYPE: RNA
102 <213> ORGANISM: Influenza virus
104 <400> SEQUENCE: 10
105 caccugcuu uugcu 15
107 <210> SEQ ID NO: 11
108 <211> LENGTH: 15
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110 <213> ORGANISM: Influenza virus
112 <400> SEQUENCE: 11
113 caccugcuu uuacu 15
115 <210> SEQ ID NO: 12
116 <211> LENGTH: 15
117 <212> TYPE: RNA
118 <213> ORGANISM: Influenza virus
120 <400> SEQUENCE: 12
121 caccugcuu cugcu 15
123 <210> SEQ ID NO: 13
124 <211> LENGTH: 15
125 <212> TYPE: RNA

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128 <400> SEQUENCE: 13
129 caccucguuu uugcu 15
131 <210> SEQ ID NO: 14
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134 <213> ORGANISM: Influenza virus
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137 caccuugcu uuugcu 16
139 <210> SEQ ID NO: 15
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141 <212> TYPE: RNA
142 <213> ORGANISM: Influenza virus
144 <400> SEQUENCE: 15
145 caccucguuu uuacu 15
147 <210> SEQ ID NO: 16
148 <211> LENGTH: 15
149 <212> TYPE: RNA
150 <213> ORGANISM: Influenza virus
152 <400> SEQUENCE: 16
153 caccucguuu cugcu 15
155 <210> SEQ ID NO: 17
156 <211> LENGTH: 16
157 <212> TYPE: RNA
158 <213> ORGANISM: Influenza virus
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161 caccuugcu uuuuacu 16
163 <210> SEQ ID NO: 18
164 <211> LENGTH: 16
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166 <213> ORGANISM: Influenza virus
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169 caccuuguu uuuuacu 16
171 <210> SEQ ID NO: 19
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173 <212> TYPE: RNA
174 <213> ORGANISM: Influenza virus
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177 caccuuguu uuuacu 16
179 <210> SEQ ID NO: 20
180 <211> LENGTH: 96
181 <212> TYPE: DNA
182 <213> ORGANISM: Influenza virus
184 <400> SEQUENCE: 20
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186 tataaccaccg ttgatatac ccaatcgcac cgtaaa 96
188 <210> SEQ ID NO: 21
189 <211> LENGTH: 96
190 <212> TYPE: DNA

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191 <213> ORGANISM: Influenza virus
193 <400> SEQUENCE: 21
194 gttcttttacg atgcgattgg gatatatcaa cggtggtata cccagtgatt tttttctcca      60
195 ttatgtcttt gtcaccctgc ttttgetgca gggcgt      96
197 <210> SEQ ID NO: 22
198 <211> LENGTH: 34
199 <212> TYPE: DNA
200 <213> ORGANISM: Influenza virus
202 <400> SEQUENCE: 22
203 actgcgatga gtggcagggc ggggcgtaat agat      34
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206 <211> LENGTH: 38
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208 <213> ORGANISM: Influenza virus
210 <400> SEQUENCE: 23
211 ctagatctat tacgccccgc cctgccactc atgcgagt      38
213 <210> SEQ ID NO: 24
214 <211> LENGTH: 34
215 <212> TYPE: DNA
216 <213> ORGANISM: Influenza virus
218 <400> SEQUENCE: 24
219 actgcgatga gtggcagggc ggggcgtaat agat      34
221 <210> SEQ ID NO: 25
222 <211> LENGTH: 38
223 <212> TYPE: DNA
224 <213> ORGANISM: Influenza virus
226 <400> SEQUENCE: 25
227 ctagatctat tacgccccgc cctgccactc atgcgagt      38
229 <210> SEQ ID NO: 26
230 <211> LENGTH: 97
231 <212> TYPE: DNA
232 <213> ORGANISM: Influenza virus
234 <400> SEQUENCE: 26
235 ctagacgcc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aaatcactgg      60
236 gtataccacc gttgatatat cccaatcgca tcgtaaa      97
238 <210> SEQ ID NO: 27
239 <211> LENGTH: 96
240 <212> TYPE: DNA
241 <213> ORGANISM: Influenza virus
243 <400> SEQUENCE: 27
244 gttcttttacg atgcgattgg gatatatcaa cggtggtata cccagtgatt tttttctcca      60
245 ttatgtcttt gtcaccctgc ttttgetgca gggcgt      96
247 <210> SEQ ID NO: 28
248 <211> LENGTH: 30
249 <212> TYPE: DNA
250 <213> ORGANISM: Influenza virus
252 <400> SEQUENCE: 28
253 cggaattctc ttcgagcgaa agcaggagtt      30
255 <210> SEQ ID NO: 29

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256 <211> LENGTH: 51
257 <212> TYPE: DNA
258 <213> ORGANISM: Influenza virus
260 <400> SEQUENCE: 29
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263 <210> SEQ ID NO: 30
264 <211> LENGTH: 51
265 <212> TYPE: DNA
266 <213> ORGANISM: Influenza virus
268 <400> SEQUENCE: 30
269 catgggtgag ttctgaccaa aatctagatt ataaaatagg atacatatgc a      51
271 <210> SEQ ID NO: 31
272 <211> LENGTH: 43
273 <212> TYPE: DNA
274 <213> ORGANISM: Influenza virus
276 <400> SEQUENCE: 31
277 aatgtatcct attttataat ctagattttg gtcgaaactc acc      43
279 <210> SEQ ID NO: 32
280 <211> LENGTH: 24
281 <212> TYPE: DNA
282 <213> ORGANISM: Influenza virus
284 <400> SEQUENCE: 32
285 ggccactagt aggtcgacgc cggc      24
287 <210> SEQ ID NO: 33
288 <211> LENGTH: 22
289 <212> TYPE: DNA
290 <213> ORGANISM: Influenza virus
292 <400> SEQUENCE: 33
293 gcgctggcca tcttgccagc ca      22
295 <210> SEQ ID NO: 34
296 <211> LENGTH: 17
297 <212> TYPE: DNA
298 <213> ORGANISM: Influenza virus
300 <400> SEQUENCE: 34
301 agaaaaaaat cactggg      17
303 <210> SEQ ID NO: 35
304 <211> LENGTH: 17
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306 <213> ORGANISM: Influenza virus
308 <400> SEQUENCE: 35
309 ttacgccccg cctgcc      17
311 <210> SEQ ID NO: 36
312 <211> LENGTH: 23
313 <212> TYPE: DNA
314 <213> ORGANISM: Influenza virus
316 <400> SEQUENCE: 36
317 gcgcatcgat aggtcgacgc cgg      23
319 <210> SEQ ID NO: 37
320 <211> LENGTH: 55

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**VERIFICATION SUMMARY**

DATE: 09/29/2004

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